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**(54) 2'-SUBSTITUTED-2',3'-  
DIDEHYDRO-2',3'-  
DIDEOXYNUCLEOSIDE  
AND ITS PRODUCTION**

(57) Abstract:

**PURPOSE:** To provide a new compound useful as an intermediate for stably supplying a large amount of a compound having various physiological activities including antiviral activity such as anti-AIDS virus activity and also expected to have antiviral activity, etc., by itself.

**CONSTITUTION:** This compound is expressed by formula I (R1 is a hydroxylprotecting group; R2 is an alkyl, an aryl, etc.; B is a nucleic acid base; X is S or Se), e.g. 1-[5-0-(t-butylidiphenylsilyl)2,3-dideoxy-2-phenylsulfonyl-β-D-glycero-pent-2-enofuranosyl]uracil. The compound can be produced by reacting a 2',2'-dideoxynucleoside derivative of formula II with an oxidizing agent (preferably m-chloroperbenzoic acid), subjecting the reaction product to thermal dissociation reaction by refluxing the product preferably in a

hydrocarbon solvent or an ether solvent in the presence of tri(n-butyl) amine and oxidizing the obtained new 2'-substituted nucleoside derivative of formula III.

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